

### Abstract of the Disclosure

A light-receiving device, a method for manufacturing the same, and an optoelectronic integrated circuit including the same are provided. The light-receiving device includes a substrate; an intrinsic region formed on the substrate; a first region formed to a shallow depth in the intrinsic region; and a second region formed to a deep depth in the intrinsic region and distanced from the first region, wherein the first and second regions are doped with different conductivity types. The light-receiving device can shorten the transit time of holes with slow mobility. Therefore, no response delay occurs, and thus, a high response speed can be accomplished.